PTO/SB/05 (11-00) igh 10/31/2002, OMB 0651-0032

Approved for ase through fore traces:	CIVID 0001 0002
U.S. Patent and Trademark Office; U.S. DEPARTMENT	OF COMMERCE

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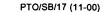
UTILITY PATENT APPLICATION TRANSMITTAL

47508.xxx Attorney Docket No. Agrawal First Inventor Modulation of Oligonucleotide CpG-Mediated. Express Mail Label No. EL384922075US

APPLICATION ELEMENTS See MPEP chapter 600 concerning utility patent application contents. 1. Fee Transmittal Form (e.g., PTO/SB/17) (Submit an original and a duplicate for fee processing) 2. Applicant claims small entity status. See 37 CFR 1.27. 3. Specification (Preferred arrangement set forth below) - Descriptive title of the invention - Cross Reference to Related Applications - Statement Regarding Fed sponsored R & D - Reference to sequence listing, a table, or a computer program listing appendix - Background of the Invention - Brief Summary of the Invention - Brief Summary of the Invention - Brief Description - Claim(s) - Abstract of the Disclosure 4. Drawing(s) (35 U.S.C. 113) [Total Sheets] Application contents. 5. Nucleotide and/or Amino Acid Sequence Submission (if applicable, all necessary) a. Conputer Readable Form (CRF) b. Specification Sequence Listing on: i. CD-ROM or CD-R (2 copies); or ii. paper c. Statements verifying identity of above copies ACCOMPANYING APPLICATION PARTS 9. Assignment Papers (cover sheet & document(s)) 10. 37 CFR 3.73(b) Statement (when there is an assignee) ACCOMPANYING APPLICATION PARTS 9. Assignment Papers (cover sheet & document (if applicable)) 11. English Translation Document (if applicable)				
1. Fee Transmittal Form (e.g., PTO/SB/17) (Submit an original and a duplicate for fee processing) Applicant claims small entity status. See 37 CFR 1.27. Specification [Total Pages 20] - Descriptive title of the invention - Cross Reference to Related Applications - Statement Regarding Fed sponsored R & D - Reference to sequence listing, a table, or a computer program listing appendix - Background of the Invention - Brief Summary of the Invention - Brief Description of the Drawings (if filed) - Detailed Description - Claim(s) - Abstract of the Disclosure 4. Prawing(s) (35 U.S.C. 113) [Total Sheets] 7. CD-ROM or CD-R in duplicate, large table or Computer Program (Appendix) 8. Nucleotide and/or Amino Acid Sequence Submission (if applicable, all necessary) a. Computer Readable Form (CRF) b. Specification Sequence Listing on: i. Depart CD-ROM or CD-R in duplicate, large table or Computer Program (Appendix) 8. Nucleotide and/or Amino Acid Sequence Submission (if applicable, all necessary) a. Computer Readable Form (CRF) b. Specification Sequence Listing on: i. Depart CD-ROM or CD-R in duplicate, large table or Computer Program (Appendix) 8. Nucleotide and/or Amino Acid Sequence Submission (if applicable, all necessary) a. Computer Readable Form (CRF) b. Specification Sequence Listing on: ii. P paper c. Statements verifying identity of above copies ACCOMPANYING APPLICATION PARTS 9. Assignment Papers (cover sheet & document(s)) 37 CFR 3.73(b) Statement Power of Attorney Attorney 10. 37 CFR 3.73(b) Statement Power of Attorney 11. English Translation Document (if applicable)				
Computer Program (Appendix) Applicant claims small entity status. See 37 CFR 1.27. Specification [Total Pages 20] - Descriptive title of the invention - Cross Reference to Related Applications - Statement Regarding Fed sponsored R & D - Reference to sequence listing, a table, or a computer program listing appendix - Background of the Invention - Brief Description of the Drawings (if filed) - Detailed Description - Claim(s) - Abstract of the Disclosure Computer Program (Appendix) 8. Nucleotide and/or Amino Acid Sequence Submission (if applicable, all necessary) a. Computer Readable Form (CRF) b. Specification Sequence Listing on: i. CD-ROM or CD-R (2 copies); or ii. paper c. Statements verifying identity of above copies ACCOMPANYING APPLICATION PARTS 9. Assignment Papers (cover sheet & document(s)) 4. Prawing(s) (35 U.S.C. 113) [Total Sheets 3] English Translation Document (if applicable)				
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- Brief Summary of the Invention - Brief Description of the Drawings (if filed) - Detailed Description - Claim(s) - Abstract of the Disclosure 4. Drawing(s) (35 U.S.C. 113) [Total Sheets 3] - Brief Summary of the Invention - ACCOMPANYING APPLICATION PARTS 9. Assignment Papers (cover sheet & document(s)) - Assignment Papers (cover sheet & document(s)) - Attorney - Invention 1				
- Detailed Description - Claim(s) - Abstract of the Disclosure 9. Assignment Papers (cover sheet & document(s)) 37 CFR 3.73(b) Statement (when there is an assignee) 10. (when there is an assignee) 11. English Translation Document (if applicable)				
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4. Prawing(s) (35 U.S.C. 113) [Total Sheets 3] III. English Translation Document (if applicable)				
4. Diaming(s) (co c.c.c. 170) [Total Checks				
Information Disclosure Copies of IDS				
5. Oath or Declaration [Total Pages] Statement (IDS)/PTO-1449 Citations				
a. Newly executed (original or copy) Copy from a prior application (37 CFR 1.63 (d)) Return Receipt Postcard (MPEP 503)				
b. Copy from a prior application (37 CFR 1.63 (d)) (for continuation/divisional with Box 18 completed) 14. Return Receipt Postcard (MPEP 503) (Should be specifically itemized)				
i. DELETION OF INVENTOR(S) Signed statement attached deleting inventor(s) 15. Certified Copy of Priority Document(s) (if foreign priority is claimed)				
named in the prior application, see 37 CFR 18 Request and Certification under 35 U.S.C. 122				
1.63(d)(2) and 1.33(b). (b)(2)(B)(i). Applicant must attach form PTO/SB/35 or its equivalent.				
6. Application Data Sheet. See 37 CFR 1.76 17. Other:				
18. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in a preliminary amendment				
or in an Application Data Sheet under 37 CFR 1.76:				
Continuation Divisional Continuation-in-part (CIP) of prior application No.:/				
Prior application information: Examiner Group Art Unit: For CONTINUATION OR DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied under				
Box 5b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.				
19. CORRESPONDENCE ADDRESS				
Customer Number or Bar Code Label (Insert Customer No. or Attach bar code label here) Correspondence address below				
Name Wayne A. Keown, Ph.D.				
Hale and Dorr LLP				
Address 60 State Street				
City Boston State Massachusetts Zip Code 02109-1816				
Country US Telephone (617) 526-6000 Fax (617) 526-50				
Name (Print/Type) Wayne A. Keown, Ph.D. Registration No. (Attorney/Agent) 33,923				
Signature Date 04/30/01				

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FEE TRANSMITTAL for FY 2001

Patent fees are subject to annual revision.

TOTAL AMOUNT OF PAYMENT

(\$)	533.	00
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Co	omplete if Known	
Application Number	TBA	
Filing Date	April 30, 2001	
First Named Inventor	Agrawal	
Examiner Name	ТВА	
Group Art Unit	TBA	
Attorney Docket No.	47508.xxx	

	METHOD OF PAYMENT FEE CALCULATION (continued)		
	The Commissioner is hereby authorized to charge indicated foca and gradit any authorized to charge	3. ADDITIONAL FEES	
	indicated fees and credit any overpayments to: Deposit	Large Small	
	Account Number 08-0219	Entity Entity Fee Fee Fee Fee Fee Pe	aid
	Deposit Account Hale and Dorr LLP	Code (\$) Code (\$) 105 130 205 65 Surcharge - late filing fee or oath	
	Name Train and Borr EE	127 50 227 25 Surcharge - late provisional filing fee or	
	Charge Any Additional Fee Required Under 37 CFR 1.16 and 1.17	cover sheet	\dashv
:	Applicant claims small entity status.	139 130 139 130 Non-English specification	_
Ì	See 37 CFR 1.27 2. Payment Enclosed:	147 2,520 147 2,520 For filing a request for ex parte reexamination	
	Check Credit card Order Other	112 920* 112 920* Requesting publication of SIR prior to Examiner action	_
4	FEE CALCULATION	113 1,840* 113 1,840* Requesting publication of SIR after Examiner action	_
	1. BASIC FILING FEE	115 110 215 55 Extension for reply within first month	
===	Large Entity Small Entity	116 390 216 195 Extension for reply within second month	
U1	Fee Fee Fee Fee Description Code (\$) Code (\$) Fee Paid	117 890 217 445 Extension for reply within third month	
m	101 710 201 355 Utility filing fee 355.00	118 1,390 218 695 Extension for reply within fourth month	 - ¹
TÜ .	106 320 206 160 Design filing fee	128 1,890 228 945 Extension for reply within fifth month	
Ш	107 490 207 245 Plant filing fee	119 310 219 155 Notice of Appeal	'
8	108 710 208 355 Reissue filing fee	120 310 220 155 Filing a brief in support of an appeal	
	114 150 214 75 Provisional filing fee	121 270 221 135 Request for oral hearing	 '
# I	SUBTOTAL (1) (\$) 355.00	138 1,510 138 1,510 Petition to institute a public use proceeding	
		140 110 240 55 Petition to revive - unavoidable	
	2. EXTRA CLAIM FEES Fee from	141 1,240 241 620 Petition to revive - unintentional	
	Extra Claims below Fee Paid	142 1,240 242 620 Utility issue fee (or reissue)	
<u>-</u> -	Total Claims 22 -20** = 2 X 9.0 = 18.0	143 440 243 220 Design issue fee	
	Claims 4 3 - 1 × 40.0 = 100.0	144 600 244 300 Plant issue fee	\dashv
	Multiple Dependent	122 130 122 130 Petitions to the Commissioner	
	Large Entity Small Entity	123 50 123 50 Processing fee under 37 CFR 1.17(q)	
	Fee Fee Fee Fee Description	126 180 126 180 Submission of Information Disclosure Stmt	
	Code (\$) Code (\$) 103 18 203 9 Claims in excess of 20	581 40 581 40 Recording each patent assignment per property (times number of properties)	
	102 80 202 40 Independent claims in excess of 3	146 710 246 355 Filing a submission after final rejection	
İ	104 270 204 135 Multiple dependent claim, if not paid	(37 CFR § 1.129(a)) 149 710 249 355 For each additional invention to be	
	109 80 209 40 ** Reissue independent claims over original patent	examined (37 CFR § 1.129(b))	
	110 18 210 9 ** Reissue claims in excess of 20	179 710 279 355 Request for Continued Examination (RCE)	
	and over original patent	169 900 169 900 Request for expedited examination of a design application	
	SUBTOTAL (2) (\$) 178.00	Other fee (specify)	
	**or number previously paid, if greater; For Reissues, see above	*Reduced by Basic Filing Fee Paid SUBTOTAL (3) (\$) 0.00	

SUBMITTED BY			Complete (i	Complete (if applicable)	
Name (Print/Type)	Wayne A. Keown, Ph.D.	Registration No. (Attorney/Agent) 33,923	Telephone	617-526-6000	
Signature	Wx a. K		Date	04/30/01	

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NEW UTILITY APPLICATION FOR UNITED STATES PATENT

Pursuant to 37 C.F.R. § 1.53(b)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

(Attorney Docket No. 47508.xxx)

Title:

Modulation of Oligonucleotide CpG-mediated Immune Stimulation by Positional Modification of Nucleosides

Inventor:

Sudhir Agrawal

CERTIFICATE OF MAILING (37 C.F.R. § 1.10)

I hereby certify that this correspondence is being deposited with the United States Postal Service as "Express Mail Post Office to Addressee" Service under 37 CFR 1.110 on January 26, 2001 and is addressed to: Commissioner for Patents, Washington, D.C. 20231

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